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↑ ABSTRACT

Economic forces and physical laws are driving the growth of a new wireless infrastructure that will become as ubiquitous as lighting and power infrastructures are today. Many expect that the next-generation cellular systems built upon this foundation will bring fast, nearly ubiquitous, wireless data connections to users. At the heart of this new infrastructure lies short-range wireless, a complementary class of emerging technologies meant primarily for indoor use over very short distances. SRW links will offer peak speeds of tens or even hundreds of megabits per second-- at very low cost and with very low power--to many closely spaced users. In its base set of applications, SRW technologies will provide cableless connections among the portable devices people wear and carry daily, including cell phones, headsets, PDAs, laptop computers, digital cameras, audio and video players, and health monitoring devices. Given that SRW links will be unlicensed, and that owners of individual premises rather than government authorities will grant installation permissions, SRW business models may differ radically from those of traditional telecom carriers. Some carriers may see SRW as a threat and actively oppose it, while others may see it as a powerful complement to their current technologies.

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↑ INDEX TERMS

Primary Classification:

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C.2 COMPUTER-COMMUNICATION NETWORKS

C.2.1 Network Architecture and Design

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Additional Classification:

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A simple transmit diversity technique for wireless commu

Alamouti, S.M.

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This paper appears in: Selected Areas in Communications, IEEE Journal on

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This paper presents a simple two-branch transmit diversity scheme. Using two transmit ar receive antenna the scheme provides the same diversity order as maximal-ratio receiver of with one transmit antenna, and two receive antennas. It is also shown that the scheme may generalized to two transmit antennas and M receive antennas to provide a diversity order scheme does not require any bandwidth expansion or any feedback from the receiver to tl computation complexity is similar to MRRC

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10094946	7139321	150	03/07/2002	CHANNEL ESTIMATION FOR WIRELESS OFDM SYSTEMS	GIANNAKIS, GEORGIOS B.
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10421678	Not	95	04/21/2003	SPACE-TIME DOPPLER	GIANNAKIS,

	Issued			CODING SCHEMES FOR TIME-SELECTIVE WIRELESS COMMUNICATION CHANNELS	GEORGIOS B.
10796563	Not Issued	41	03/08/2004	Space-time coding for multi- antenna ultra-wideband transmissions	GIANNAKIS, GEORGIOS B.
10796567	Not . Issued	41	03/08/2004	Timing synchronization using dirty templates in ultra wideband (UWB) communications	GIANNAKIS, GEORGIOS B.
10796570	Not Issued	41	03/08/2004	Pilot waveform assisted modulation for ultra-wideband communications	GIANNAKIS, GEORGIOS B.
10796895	Not Issued	30	03/08/2004	Multi-user interference resilient ultra wideband (UWB) communication	GIANNAKIS, GEORGIOS B.
10828104	Not Issued	30	04/20/2004	Space-time-frequency coded OFDM communications over frequency-selective fading channels	GIANNAKIS, GEORGIOS B.
10841806	Not Issued	41	05/07/2004	Receiver for chip-interleaved block-spread multi-user communication systems	GIANNAKIS, GEORGIOS B.
10850825	Not Issued	41	05/21/2004	Channel estimation for block transmissions over time-and frequency-selective wireless fading channels	GIANNAKIS, GEORGIOS B.
10850961	Not Issued	41	05/21/2004	Estimating frequency-offsets and multi-antenna channels in MIMO OFDM systems	GIANNAKIS, GEORGIOS B.
10952713	Not Issued	30	09/29/2004	Pulse shaper design for ultra- wideband communications	GIANNAKIS, GEORGIOS B.
10953493	Not Issued	30	09/29/2004	Digital carrier multi-band user codes for ultra-wideband multiple access	GIANNAKIS, GEORGIOS B.
10955336	Not. Issued	30	09/30/2004	Full-diversity, full-rate complex- field space-time coding for wireless communication	GIANNAKIS, GEORGIOS B.
11070855	Not Issued	30	03/02/2005	Bandwidth and power efficient multicarrier multiple access	GIANNAKIS, GEORGIOS B.
11242623	Not Issued	30	10/03/2005	Noncoherent ultra-wideband (UWB) demodulation	GIANNAKIS, GEORGIOS B.
11243454	Not Issued	30	10/04/2005	Blind synchronization and demodulation	GIANNAKIS, GEORGIOS B.
11682664	Not	16	03/06/2007	SPACE-TIME CODED	GIANNAKIS,

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	Issued			TRANSMISSIONS WITHIN A WIRELESS COMMUNICATION NETWORK	GEORGIOS B.
60220899	Not Issued	159	07/25/2000	Methods and apparatus for crosstalk cancellation in DSL modems	GIANNAKIS, GEORGIOS B.
60293476	Not Issued	159		Space-time coded transmission with maximum diversity gains over frequency-selective multipath fading channels	GIANNAKIS, GEORGIOS B.
<u>60374886</u>	Not Issued	159		Transceiver designs combining complex-field coding with galois-field coding and low-complexity turbo-decoding for wireless fading communication channels	GIANNAKIS, GEORGIOS B.
60374933	Not Issued	159	04/22/2002	Optimal transmitter eigen- beamforming and space time block coding based on partial channel state information	GIANNAKIS, GEORGIOS B.
60374934	Not Issued	159		Space-time-multipath coding using digital phase sweeping and block circular delay diversity for wireless transmissions over frequency-selective fading channels	GIANNAKIS, GEORGIOS B.
60374935	Not Issued	159	04/22/2002	Linear constellation precoding for fading communication channels	GIANNAKIS, GEORGIOS B.
60374981	Not Issued	159		Space-time-doppler coding for wireless and mobile communications over time-selective and doubly-selective fading channels	GIANNAKIS, GEORGIOS B.
60453659	Not Issued	159	03/08/2003	Low-complexity training for timing acquisition in ultra wideband communications	GIANNAKIS, GEORGIOS B.
60453803	Not Issued	159	03/08/2003	Non-data aided timing-offset estimation for ultra-wideband transmissions using cyclostationarity	GIANNAKIS, GEORGIOS B.
60453804	Not Issued	159	03/08/2003	Optimal pilot waveform assisted modulation for ultra wideband communications	GIANNAKIS, GEORGIOS B.
60453809	Not Issued	159	03/08/2003	Multi-user interference resilient algorithms for ultra-wideband multiple access through multipath	GIANNAKIS, GEORGIOS B.

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6045381	Not Issued	159	03/08/2003	Analog space-time coding for multi-antenna ultra-wideband transmissions	GIANNAKIS, GEORGIOS B.
6046430	7 Not Issued	159	04/21/2003	Space-time-frequency coding for mimo-OFDM	GIANNAKIS, GEORGIOS B.
6046961	Not Issued	159	05/09/2003	Receiver for chip-interleaved, block-spread multi-user communication system	GIANNAKIS, GEORGIOS B.
6047229	0 Not Issued	159	05/21/2003	Optimal training for block transmissions over doubly- selective wireless fading channels	GIANNAKIS, GEORGIOS B.
6047229	7 Not Issued	159	05/21/2003	Estimating frequency-offsets and multi-antenna channels for MIMO OFDM	GIANNAKIS, GEORGIOS B.
6049975	4 Not Issued	159	09/03/2003	Adaptive modulation for multi- antenna transmissions with partial channel knowledge	GIANNAKIS, GEORGIOS B.
6050726	9 Not Issued	159	09/30/2003	Digital carrier multi-band user codes for ultra wide band multiple access	GIANNAKIS, GEORGIOS B.
6050730	Not Issued	159	09/30/2003	Pulse-shaper design for ultra- wideband radio communication	GIANNAKIS, GEORGIOS B.
6050782	9 Not Issued	159		Full-diversity full-rate complex- field space-time coding	GIANNAKIS, GEORGIOS B.
6055259	4 Not Issued	159		Bandwidth and power efficient multi-carrier multiple access for uplink broadband wireless communication	GIANNAKIS, GEORGIOS B.
6061548	9 Not Issued	159	10/01/2004	Noncoherent ultra-wideband radios	GIANNAKIS, GEORGIOS B.
6061580	Not Issued	159	10/04/2004	Low-complexity blind synchronization and demodulation	GIANNAKIS, GEORGIOS B.

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Application#	Patent#	Status	Date Filed	Title	Inventor Name
10796563	Not Issued	41	03/08/2004	Space-time coding for multi- antenna ultra-wideband transmissions	YANG, LIUQING
10796567	Not Issued	41		Timing synchronization using dirty templates in ultra wideband (UWB) communications	YANG, LIUQING
<u>10796570</u>	Not Issued	41	03/08/2004	Pilot waveform assisted modulation for ultra-wideband communications	YANG, LIUQING
10796895	Not Issued	30	03/08/2004	Multi-user interference resilient ultra wideband (UWB) communication	YANG, LIUQING
10952713	Not Issued	30	09/29/2004	Pulse shaper design for ultra- wideband communications	YANG, LIUQING
10953493	Not Issued	30		Digital carrier multi-band user codes for ultra-wideband multiple access	YANG, LIUQING
11242623	Not Issued	30	10/03/2005	Noncoherent ultra-wideband (UWB) demodulation	YANG, LIUQING
60453659	Not Issued	159	03/08/2003	Low-complexity training for timing acquisition in ultra wideband communications	YANG, LIUQING
60453803	Not Issued	159	03/08/2003	Non-data aided timing-offset estimation for ultra-wideband transmissions using cyclostationarity	YANG, LIUQING
60453804	Not Issued	159	03/08/2003	Optimal pilot waveform assisted modulation for ultra wideband communications	YANG, LIUQING
60453809	Not Issued	159	03/08/2003	Multi-user interference resilient algorithms for ultra-wideband multiple access through multipath channels	YANG, LIUQING

60453810	Not Issued	159		Analog space-time coding for multi-antenna ultra-wideband transmissions	YANG, LIUQING
60507269	Not Issued	159	-	Digital carrier multi-band user codes for ultra wide band multiple access	YANG, LIUQING
60507303	Not Issued	159		Pulse-shaper design for ultra- wideband radio communication	YANG, LIUQING
60615489	Not Issued	159	i.	Noncoherent ultra-wideband radios	YANG, LIUQING

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